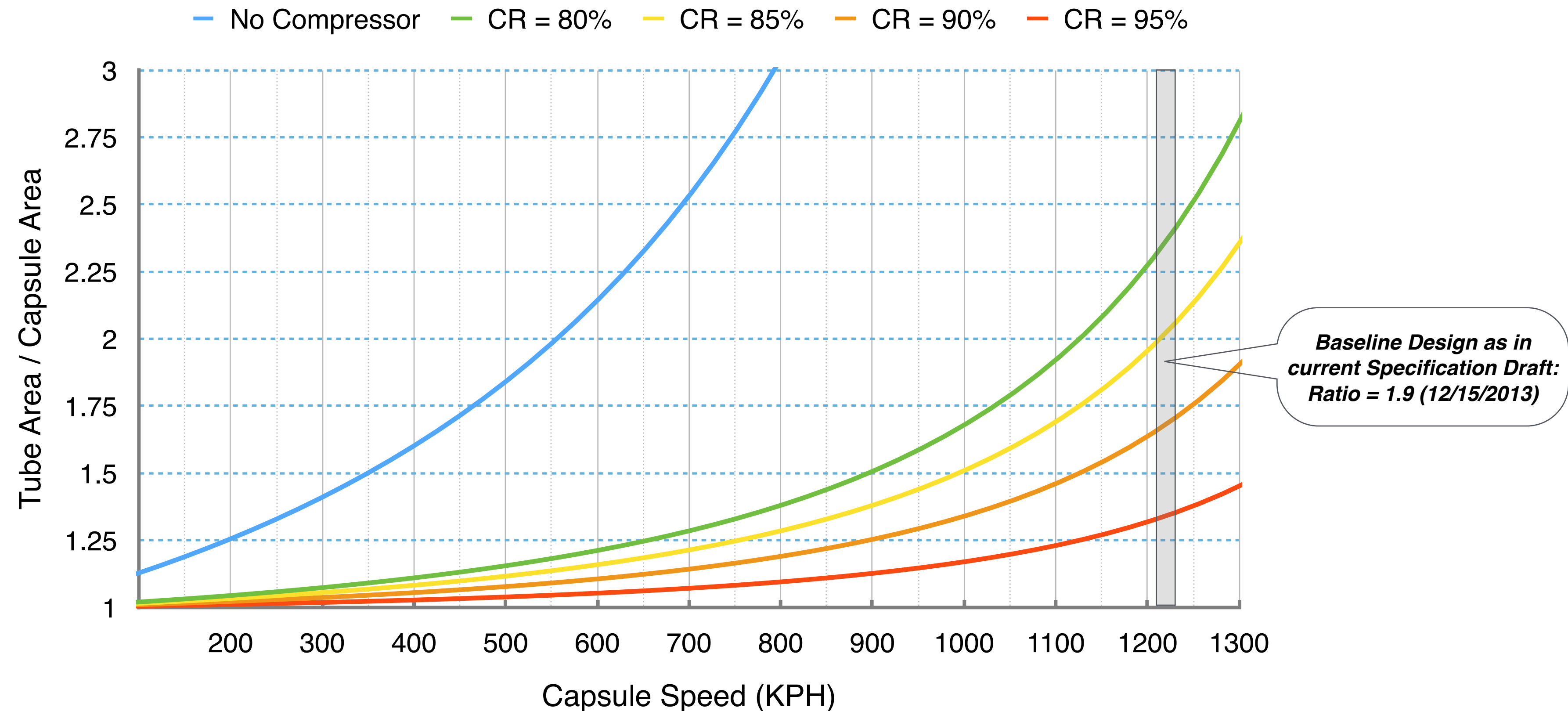


Kantrowitz

Tube cross section area as a multiple of Capsule frontal area depends on the effectiveness of the compressor /inlet and the maximum operating speed.

Tube Diameter vs. Capture Ratio



Tube Diameter required to achieve various Kantrowitz limited speeds

Tube fill = 100% water vapor @ 100Pa, 292K | Kantrowitz limit is taken as the point where Ram Compression Ratio = 1.2

CR is Capture Ratio, the fraction of the gas inline with the Capsule frontal area that is taken into the Compressor.